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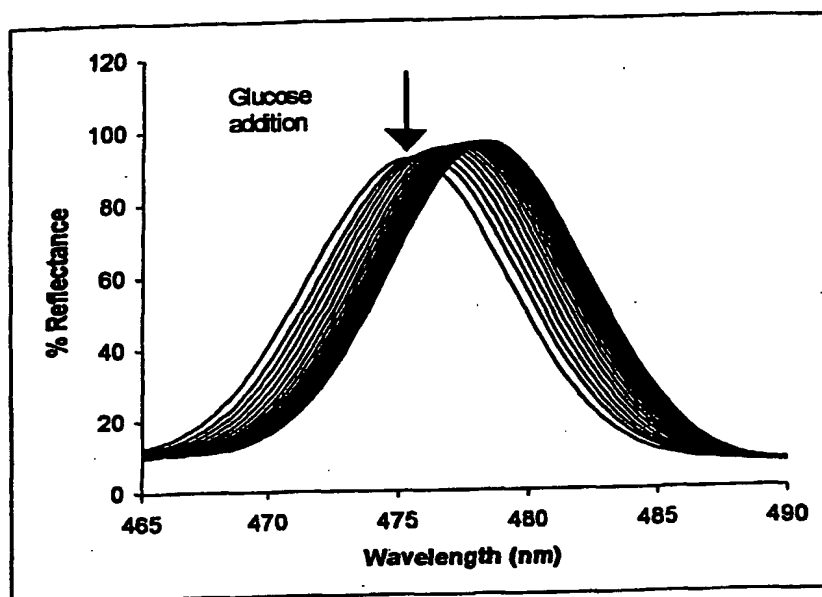


Figure 1

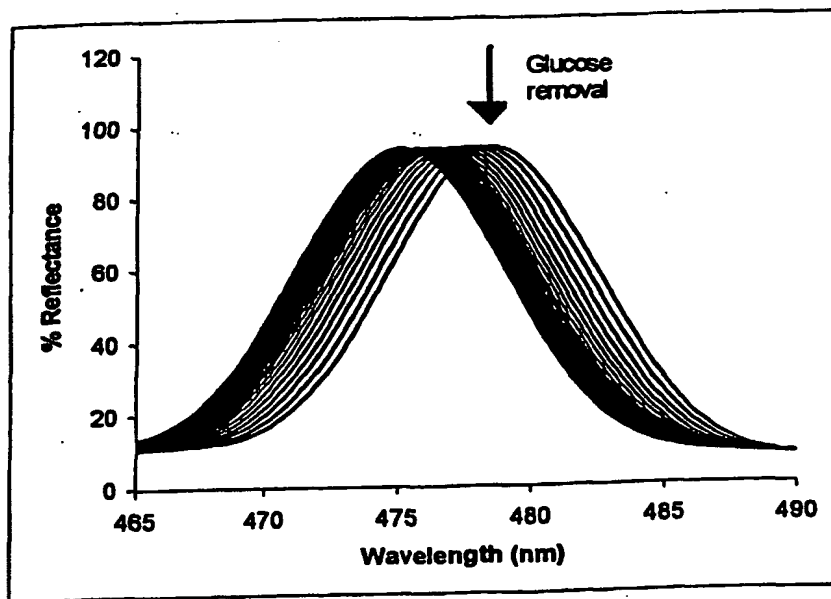


Figure 2

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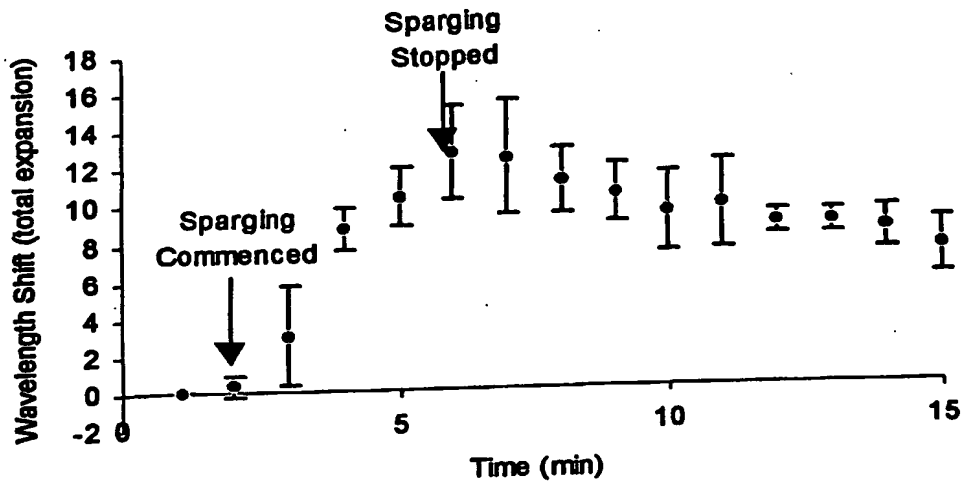


Figure 3

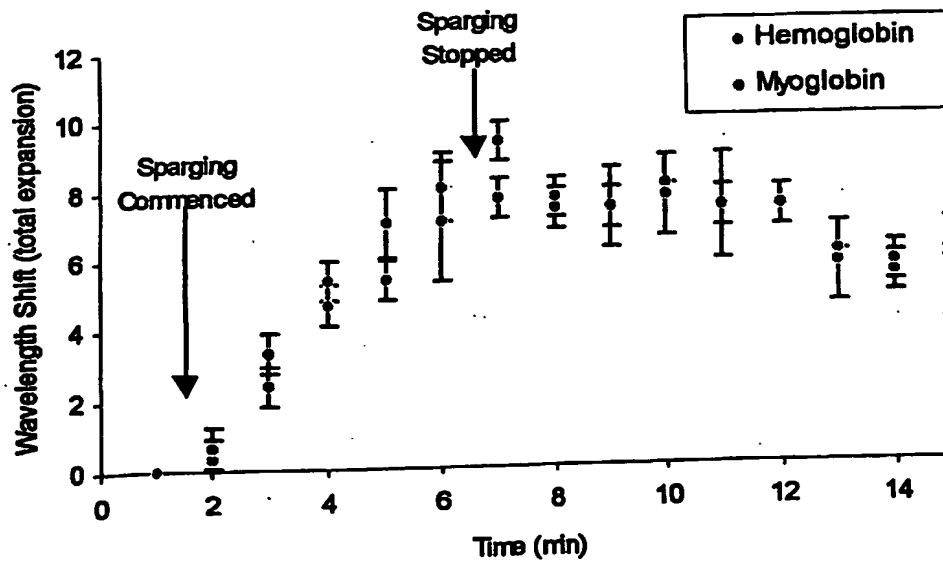


Figure 4

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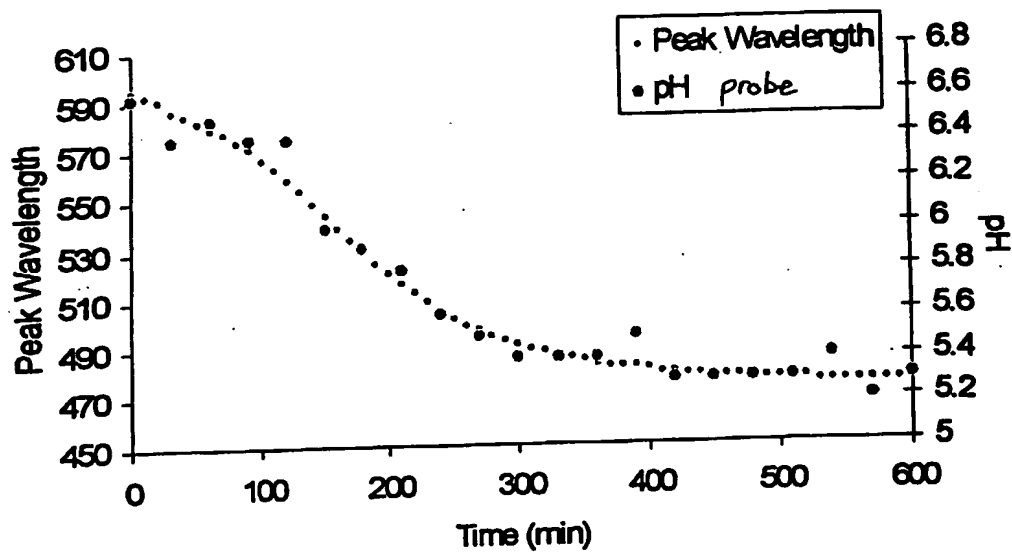


Figure 5

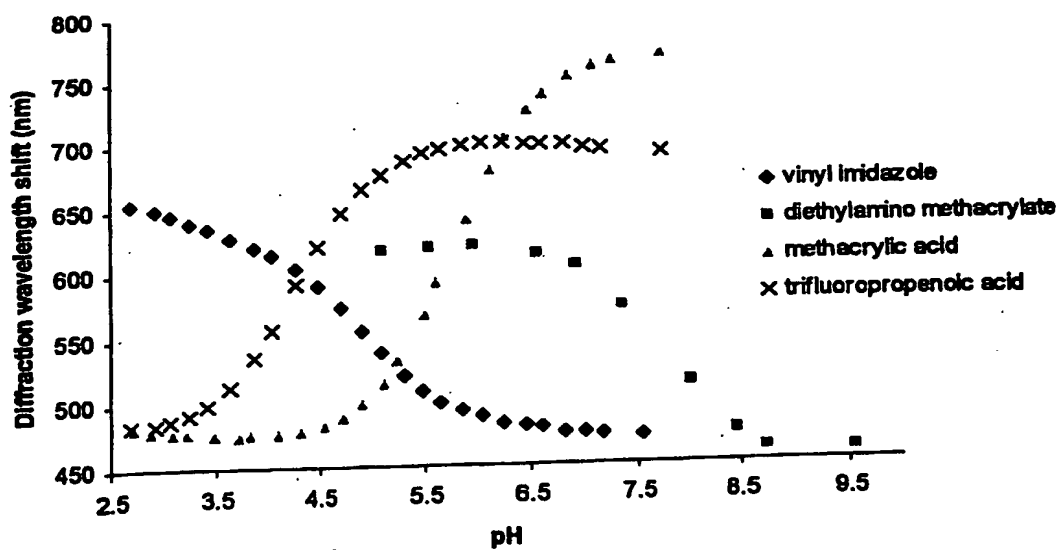
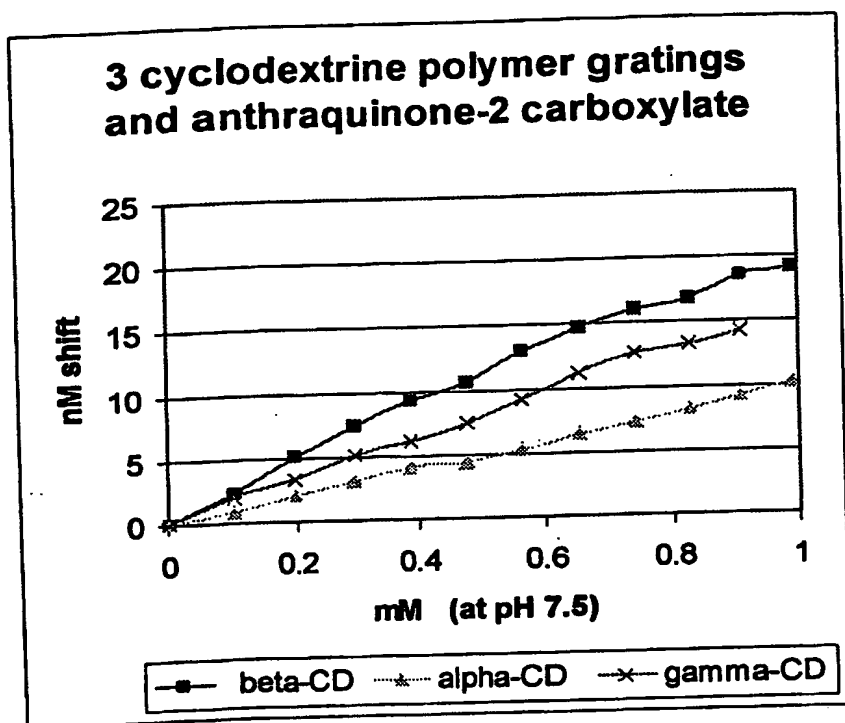


Figure 6

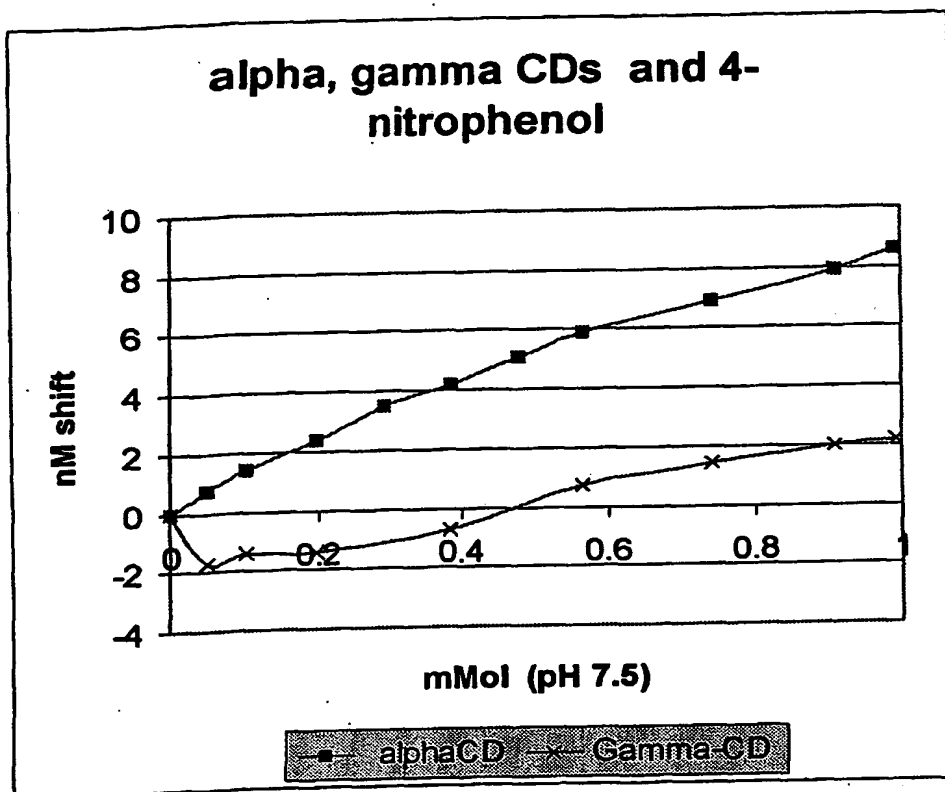


This shows how the gratings taken from the 3 cyclodextrine derivatives respond to low concentrations of for example anthraquinone 2 carboxylic acid Na salt at pH 7.5 at 30°C

FIG. 7

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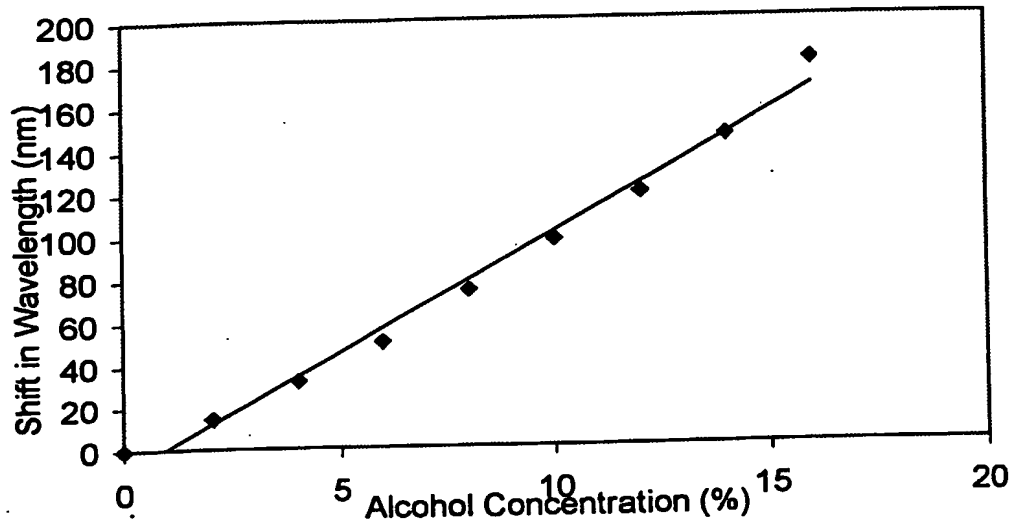
This compares the responses of alpha CD polymer and gamma CD polymer to low levels of 4-nitro phenol sodium salt at pH 7.5 at 30°C.



Gratings could be cleared of analyte by rinsing in deionized water or buffer solution. Typically a grating was agitated in the solution in a petri dish for 30 mins and the water was changed 3 times.

FIG. 8

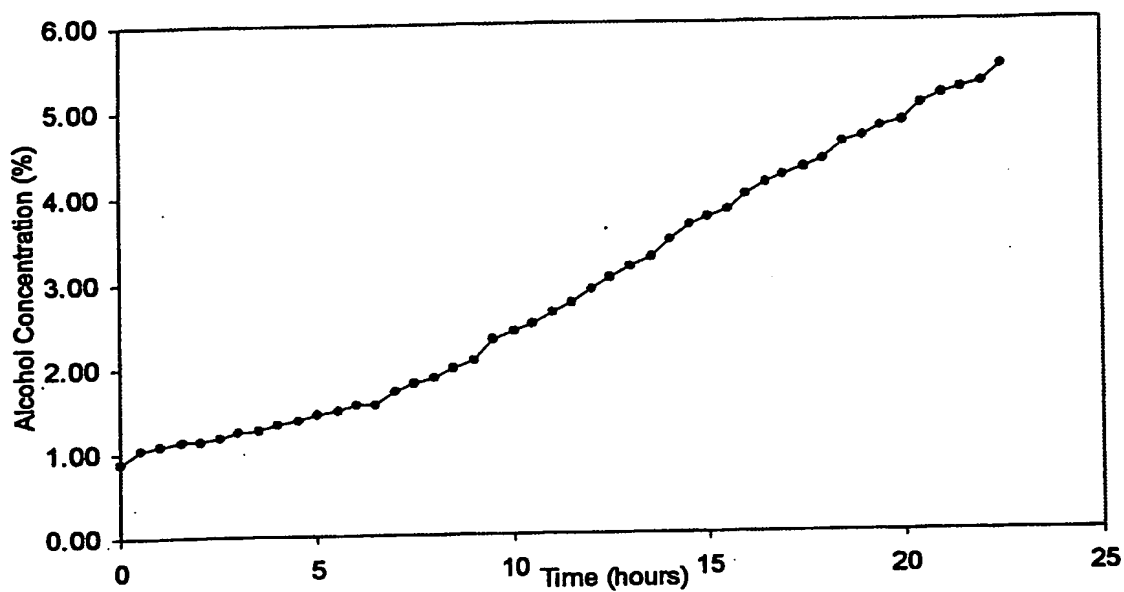
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Calibration of polyHEMA hologram in grape juice containing varying concentrations of ethanol

FIG. 9

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Production of ethanol by *Saccharomyces cerevisiae* cultured in grape juice over 23 hours.

FIG. 10